QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	4 set /31-100 cum	41.03	8	8
9	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	4 set /31-100 cum	52.5	8	8
10	GSB	SIEVE ANALYSIS	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-03-09-15** **Date: 14-12-20**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-12-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11)-1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	12-12-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	_
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer Representative

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Quality Manager

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Page 1/1
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 09-01-21

Lab ID	:	CP-2021-03-09-15
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-12-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	12-12-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-03-09-15** **Date: 14-12-20**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	11-12-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-12-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-03-09-15** **Date: 14-12-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.23	–

* The results obtained are satisfactory as per standard requirements.

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2021-03-09-15 Date: 14-12-20
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-12-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-12-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-03-09-15 Date: 14-12-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.43	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Date: 14-12-20

Lab ID	:	CP-2021-03-09-15
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-12-20
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	11-12-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-03-09-15

Date: 14-12-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

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Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	CP-2021-03-09-15 **Date: 12-12-20**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-12-20
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test	:	11-12-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF PRECAST COVER SLAB

Date: 13-01-21

Lab ID	:	CP-2021-03-09-15
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-01-21
Sample Type /Size	:	Precast Cover Slab (100mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	09/01/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Date: 13-01-21

Lab ID	:	CP-2021-03-09-15
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-01-21
Sample Type /Size	:	Precast Cover Slab (250mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	09/01/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	230.9	7.3	6.8	8.5
2	Cover Slab-2	200.49	250.52	3.122	31564	230.3	7.3	6.8	8.5
3	Cover Slab-3	200.50	250.51	3.118	31567	230.5	7.3	6.8	8.5

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/01/2021

Lab ID	:	CP-2021-03-09-15
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-01-21
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/01/2021	08/01/2021	150.13 X 150.43 X 150.43	22583	8.796	426.5	18.9	18.6
2	Drain Bottom Slab Concrete	M20	01/01/2021	08/01/2021	151.43 X 149.92 X 151.72	22703	8.708	428.7	18.9	
3	Drain Bottom Slab Concrete	M20	01/01/2021	08/01/2021	150.72 X 151.52 X 149.24	22836	8.163	412.4	18.1	

* The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

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Certificate No.: TC-5548

Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-03-09-15** **Date: 29/01/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-01-21
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/01/2021	29/01/2021	150.73 X 150.99 X 149.77	22758	8.108	524.9	23.1	22.8
2	Drain Bottom Slab Concrete	M20	01/01/2021	29/01/2021	151.15 X 150.45 X 149.07	22741	9.012	502.4	22.1	
3	Drain Bottom Slab Concrete	M20	01/01/2021	29/01/2021	151.86 X 149.81 X 151.37	22750	8.433	531.6	23.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-03-09-15** **Date: 08/01/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-01-21
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/01/2021	08/01/2021	150.98 X 149.35 X 150.01	22548	8.796	415.1	18.4	18.7
2	Drain Bottom Slab Concrete	M20	01/01/2021	08/01/2021	151.66 X 151.97 X 150.32	23048	8.708	433.1	18.8	
3	Drain Bottom Slab Concrete	M20	01/01/2021	08/01/2021	149.03 X 150.95 X 151.42	22495	8.163	425.6	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/01/2021

Lab ID	:	CP-2021-03-09-15
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-01-21
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Bottom Slab Concrete	M20	01/01/2021	29/01/2021	151.77 X 150.44 X 150.50	22831	8.108	542.7	23.8	23.4
2	Drain Bottom Slab Concrete	M20	01/01/2021	29/01/2021	151.90 X 151.92 X 151.54	23078	9.012	517.7	22.4	
3	Drain Bottom Slab Concrete	M20	01/01/2021	29/01/2021	150.28 X 149.96 X 149.64	22536	8.433	540.2	24.0	

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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-24

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Certificate No.: TC-5548

Format No CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-03-09-15** **Date: 08/01/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-01-21
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/01/2021	08/01/2021	151.60 X 151.70 X 151.08	22998	8.796	430.8	18.7	18.5
2	Drain Bottom Slab Concrete	M20	01/01/2021	08/01/2021	149.41 X 151.53 X 150.47	22640	8.708	420.7	18.6	
3	Drain Bottom Slab Concrete	M20	01/01/2021	08/01/2021	149.21 X 151.04 X 150.39	22537	8.163	411.9	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-03-09-15** **Date: 29/01/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-01-21
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/01/2021	29/01/2021	149.61 X 149.07 X 151.68	22303	8.108	529.0	23.7	23.3
2	Drain Bottom Slab Concrete	M20	01/01/2021	29/01/2021	149.09 X 149.96 X 150.41	22358	9.012	507.1	22.7	
3	Drain Bottom Slab Concrete	M20	01/01/2021	29/01/2021	151.20 X 151.01 X 150.99	22832	8.433	533.9	23.4	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-03-09-15
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-01-21
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/01/2021

Date: 08/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/01/2021	08/01/2021	151.97 X 151.81 X 150.11	23071	8.796	419.7	18.2	18.2
2	Drain Bottom Slab Concrete	M20	01/01/2021	08/01/2021	150.15 X 150.02 X 150.08	22525	8.708	411.3	18.3	
3	Drain Bottom Slab Concrete	M20	01/01/2021	08/01/2021	151.76 X 149.06 X 150.65	22621	8.163	410.4	18.1	

* The results obtained are satisfactory as per standard requirements.

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-03-09-15 Date: 29/01/2021
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-01-21
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	01/01/2021	29/01/2021	149.71 X 149.81 X 151.73	22428	8.108	519.5	23.2	23.3
2	Drain Bottom Slab Concrete	M20	01/01/2021	29/01/2021	149.92 X 150.99 X 151.03	22637	9.012	516.5	22.8	
3	Drain Bottom Slab Concrete	M20	01/01/2021	29/01/2021	151.91 X 150.37 X 150.50	22844	8.433	543.5	23.8	

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Note:
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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-03-09-15** **Date: 11/01/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/01/2021	11/01/2021	151.26 X 149.79 X 150.54	22657	8.796	428.2	18.9	18.6
2	Drain Side Wall Concrete	M20	04/01/2021	11/01/2021	150.23 X 151.84 X 151.95	22811	8.708	425.0	18.6	
3	Drain Side Wall Concrete	M20	04/01/2021	11/01/2021	150.66 X 151.18 X 150.50	22777	8.163	415.0	18.2	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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R KARTHIK RECHAN
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/02/2021

Lab ID	:	CP-2021-03-09-15
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/01/2021	01/02/2021	150.85 X 150.73 X 151.08	22737	8.108	527.7	23.2	23.3
2	Drain Side Wall Concrete	M20	04/01/2021	01/02/2021	149.77 X 149.21 X 149.90	22347	9.012	510.8	22.9	
3	Drain Side Wall Concrete	M20	04/01/2021	01/02/2021	151.14 X 151.96 X 149.60	22967	8.433	546.6	23.8	

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-03-09-15** **Date: 11/01/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/01/2021	11/01/2021	149.28 X 151.09 X 149.77	22555	8.796	426.6	18.9	18.5
2	Drain Side Wall Concrete	M20	04/01/2021	11/01/2021	149.45 X 150.44 X 149.02	22484	8.708	408.7	18.2	
3	Drain Side Wall Concrete	M20	04/01/2021	11/01/2021	149.35 X 151.83 X 149.45	22675	8.163	419.8	18.5	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/02/2021

Lab ID	:	CP-2021-03-09-15
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/01/2021	01/02/2021	151.46 X 149.67 X 149.32	22669	8.108	530.8	23.4	
2	Drain Side Wall Concrete	M20	04/01/2021	01/02/2021	150.78 X 149.88 X 149.99	22598	9.012	505.1	22.4	23.1
3	Drain Side Wall Concrete	M20	04/01/2021	01/02/2021	149.39 X 149.48 X 150.63	22331	8.433	523.1	23.4	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Date: 11/01/2021

Lab ID	:	CP-2021-03-09-15
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/01/2021	11/01/2021	149.51 X 151.35 X 150.28	22628	8.796	415.1	18.3	18.3
2	Drain Side Wall Concrete	M20	04/01/2021	11/01/2021	150.22 X 150.15 X 149.06	22556	8.708	406.4	18.0	
3	Drain Side Wall Concrete	M20	04/01/2021	11/01/2021	149.65 X 150.75 X 150.41	22561	8.163	419.4	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-03-09-15 **Date: 01/02/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/01/2021	01/02/2021	150.02 X 149.94 X 150.25	22494	8.108	519.5	23.1	23.1
2	Drain Side Wall Concrete	M20	04/01/2021	01/02/2021	149.60 X 149.55 X 151.05	22372	9.012	505.2	22.6	
3	Drain Side Wall Concrete	M20	04/01/2021	01/02/2021	151.06 X 150.13 X 150.46	22679	8.433	534.4	23.6	

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Lab ID	:	**CP-2021-03-09-15**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
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Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 11/01/2021

Date of test : 11/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/01/2021	11/01/2021	150.43 X 151.89 X 151.62	22848	8.796	430.7	18.8	18.6
2	Drain Side Wall Concrete	M20	04/01/2021	11/01/2021	150.76 X 149.19 X 150.46	22492	8.708	422.3	18.8	
3	Drain Side Wall Concrete	M20	04/01/2021	11/01/2021	151.31 X 151.90 X 149.58	22984	8.163	417.8	18.2	

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬೆಂಗಳೂರು-24

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-03-09-15** **Date: 01/02/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/01/2021	01/02/2021	151.41 X 150.90 X 149.65	22849	8.108	543.8	23.8	23.2
2	Drain Side Wall Concrete	M20	04/01/2021	01/02/2021	150.75 X 149.84 X 151.63	22589	9.012	512.6	22.7	
3	Drain Side Wall Concrete	M20	04/01/2021	01/02/2021	149.88 X 149.25 X 149.12	22368	8.433	517.3	23.1	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-03-09-15** **Date: 11/01/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/01/2021	11/01/2021	150.65 X 151.64 X 149.80	22845	8.796	433.8	19.0	18.7
2	Drain Side Wall Concrete	M20	04/01/2021	11/01/2021	150.22 X 149.97 X 150.05	22529	8.708	419.9	18.6	
3	Drain Side Wall Concrete	M20	04/01/2021	11/01/2021	149.58 X 149.75 X 149.15	22400	8.163	413.1	18.4	

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

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Certificate No : TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/02/2021

Lab ID	:	CP-2021-03-09-15
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/01/2021	01/02/2021	151.53 X 149.14 X 151.77	22599	8.108	526.1	23.3	22.9
2	Drain Side Wall Concrete	M20	04/01/2021	01/02/2021	150.18 X 151.71 X 151.01	22783	9.012	508.5	22.3	
3	Drain Side Wall Concrete	M20	04/01/2021	01/02/2021	151.81 X 149.93 X 149.93	22762	8.433	526.4	23.1	

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Authorized Signatory
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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-03-09-15** **Date: 11/01/2021**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/01/2021	11/01/2021	151.68 X 151.71 X 150.25	23011	8.796	425.1	18.5	
2	Drain Side Wall Concrete	M20	04/01/2021	11/01/2021	149.68 X 151.62 X 150.69	22695	8.708	429.3	18.9	18.6
3	Drain Side Wall Concrete	M20	04/01/2021	11/01/2021	151.33 X 149.13 X 149.20	22569	8.163	417.8	18.5	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 01/02/2021

Lab ID	:	CP-2021-03-09-15
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-21
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	04/01/2021	01/02/2021	150.30 X 150.37 X 151.01	22601	8.108	532.3	23.6	23.1
2	Drain Side Wall Concrete	M20	04/01/2021	01/02/2021	151.31 X 150.93 X 150.13	22837	9.012	519.4	22.7	
3	Drain Side Wall Concrete	M20	04/01/2021	01/02/2021	150.97 X 149.01 X 149.32	22497	8.433	520.4	23.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-03-09-15
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 18/01/2021

Date of test : 18/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	11/01/2021	18/01/2021	151.04 X 151.51 X 150.30	22883	8.189	572.7	25.0	25.3
2	Cement Concrete Pavement	M30	11/01/2021	18/01/2021	150.71 X 150.93 X 149.13	22747	8.464	611.1	26.9	
3	Cement Concrete Pavement	M30	11/01/2021	18/01/2021	150.96 X 149.61 X 151.56	22585	8.401	545.1	24.1	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-03-09-15 Date: 08/02/2021

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.

Agency : Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020

Customer's Reference : BBMP/EE/BTP/WO/160/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-01-21

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	11/01/2021	08/02/2021	149.39 X 151.39 X 149.71	22615	8.866	761.2	33.7	33.2
2	Cement Concrete Pavement	M30	11/01/2021	08/02/2021	151.29 X 150.27 X 150.20	22734	8.590	739.2	32.5	
3	Cement Concrete Pavement	M30	11/01/2021	08/02/2021	151.56 X 149.02 X 151.09	22584	8.198	755.5	33.5	

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Certificate No.: TC-5548

Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/01/2021

Lab ID	:	CP-2021-03-09-15
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	11/01/2021	18/01/2021	150.09 X 149.51 X 149.19	22440	8.189	574.5	25.6	25.5
2	Cement Concrete Pavement	M30	11/01/2021	18/01/2021	150.81 X 149.23 X 150.67	22506	8.464	593.7	26.4	
3	Cement Concrete Pavement	M30	11/01/2021	18/01/2021	151.17 X 149.61 X 149.09	22617	8.401	555.6	24.6	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/02/2021

Lab ID	:	CP-2021-03-09-15
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer's Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-01-21
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	11/01/2021	08/02/2021	150.00 X 149.59 X 149.76	22437	8.866	749.9	33.4	33.1
2	Cement Concrete Pavement	M30	11/01/2021	08/02/2021	149.37 X 151.39 X 151.95	22612	8.590	739.6	32.7	
3	Cement Concrete Pavement	M30	11/01/2021	08/02/2021	150.59 X 149.22 X 149.52	22471	8.198	742.6	33.0	

* The results obtained are satisfactory as per standard requirements.

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 30 days from the date of issue of test certificate

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Quality Manager

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2021-03-09-15 **Date: 04-01-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Thanisandra ICICI Bank Surrounding Area roads in Ward No 6 Thanisandra.
Agency	:	Sri.M.L.Dhananjaya, #6/1, 2nd Cross, R K Street, Sheshadripuram, Bangalore-560020
Customer Reference	:	BBMP/EE/BTP/WO/160/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-01-21
Type of Mix	:	GSB (Granular Sub Base)
Date of Test	:	02-01-21
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	1685	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	1106	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements.

Note:-

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